Recombinant Human MECR, His-tagged

Cat. No. MECR-728H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MECR protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 36.9 kDa (341aa).
Species	Human
Source	E.coli
Description	MECR(Mitochondrial trans-2-enoyl-CoA reductase), also known as NRBF1, catalyzes the reduction of trans-2-enoyl-CoA to acyl-CoA with chain length from C6 to C16 in an NADPH dependent manner with preference to medium chain length substrate. This protein has a role in the mitochondrial synthesis of fatty acids.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MPAKVVELKN LELAAVRGSD VRVKMLAAPI NPSDINMIQG NYGLLPELPA VGGNEGVAQV VAVGSNVTGL KPGDWVIPAN AGLGTWRTEA VFSEEALIQV PSDIPLQSAA TLGVNPCTAY RMLMDFEQLQ PGDSVIQNAS NSGVGQAVIQ IAAALGLRTI NVVRDRPDIQ KLSDRLKSLG AEHVITEEEL RRPEMKNFFK DMPQPRLALN CVGGKSSTEL LRQLARGGTM VTYGGMAKQP VVASVSLLIF KDLKLRGFWL SQWKKDHSPD QFKELILTLC DLIRRGQLTA PACSQVPLQD YQSALEASMK PFISSKQILT M
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.

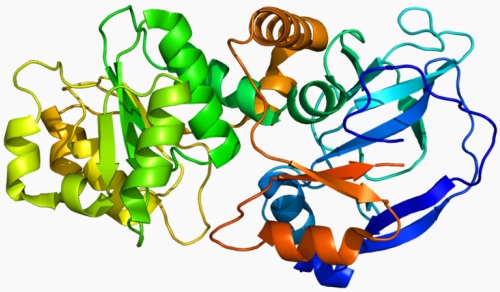
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	0.25 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	MECR mitochondrial trans-2-enoyl-CoA reductase [Homo sapiens]
Synonyms	MECR; mitochondrial trans-2-enoyl-CoA reductase; NRBF1; CGI-63; FASN2B; trans-2-enoyl-CoA reductase, mitochondrial; NRBF-1; hsNrbf-1; nuclear receptor binding factor 1; nuclear receptor-binding factor 1; mitochondrial 2-enoyl thioester reductase; homolog of yeast 2-enoyl thioester reductase; EC 1.3.1.38
Gene ID	51102
mRNA Refseq	NM_001024732
Protein Refseq	NP_001019903
MIM	608205
UniProt ID	Q9BV79
Chromosome Location	1p36.1-p35.1
Pathway	Fatty acid elongation in mitochondria; Metabolic pathways
Function	Binding; oxidoreductase activity; receptor binding; trans-2-enoyl-CoA reductase (NADPH) activity; zinc ion binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based on 1zsy.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA